# ODOR MANAGEMENT PRACTICES IN CALIFORNIA: A SURVEY OF LOCAL ENFORCEMENT AGENCIES

## WINTER 2000

Developed by California Polytechnic University, San Luis Obispo and California Integrated Waste Management Board

## **LEA Phone Survey on Odor Management Practices**

#### **DISCLAIMER:**

Survey results will be compiled. No survey information will be released that identifies an individual participant. Information concerning odor management collected from this survey will be used to develop a best management practices guidance document for industry and other interested parties. The guidance document is being developed by California Polytechnic University, San Luis Obispo under contract with the California Integrated Waste Management Board.



# ODOR MANAGEMENT - PHONE SURVEY OF LEAS WINTER 2000



Date:
Jurisdiction:
Your Name and Job Title (Optional):
Number of Years with the LEA years
Part A: OPERATIONAL DESCRIPTION (questions 1 – 8):
The purpose of this section is to obtain information on the types of organic material handling operations in your jurisdiction. The operational descriptions will provide basic background information for understanding characteristics of the different types of operations. This will assist in making correlations and drawing conclusions that may be incorporated into the guidance document being written for the California organics industry and regulators.
<ol> <li>Are there organic material handling operations and/or facilities in your jurisdiction?         (Check one)</li> <li>( ) a. Yes</li> <li>( ) b. No (proceed to question 8)</li> <li>( ) c. I don't know</li> </ol>
2. What are the permitting tiers for the existing sites in your jurisdiction. (If you have an idea the number of sites, please approximate and fill in the blank)
[ ] a. Full: There are facilities with a full permit, of which, are located on landfills.
[ ] b. Standardized: There are facilities with a standardized permit.
[ ] c. Registration: There are facilities with a registration permit.
[ ] d. Notification: There are operations in the notification tier.
[ ] e. Excluded: There are operations that are excluded.
[ ] f. I don't know which tiers.

3.	Check the types of operations/facilities in your jurisdiction?
	(Check as many as applicable)
ſ	] a. Compost, <u>not</u> on a landfill
	] b. Compost, on a landfill
	c. Mulch
-	] d. Chip & Grind
	e. Vermicompost
	f. Mushroom production
_	g. Other ( <i>explain</i> ), there are also these types of operations in this jurisdiction:
	g. Other (expiain), there are also these types of operations in this jurisdiction.
4.	What types of feedstock are usually handled at the operations/facilities in your jurisdiction? (Check as many as applicable):
Г	a Green/curbside
-	] b. Green/landscaper
	c. Green/transfer station
-	] d. Green/agricultural
	e. Biosolids
-	
-	] f. Wood
_	g. Manure
-	] h. Animal
-	] i. Food waste
	j. Municipal Solid Waste (MSW)
Ĺ	] k. Other feedstock being handled is(identify):
5.	What types of feedstock seem to create the most odor problems in your jurisdiction?
_	(Please check as many as applicable):
-	] a. Green/curbside
_	] b. Green/landscaper
-	] c. Green/transfer station
	] d. Green/agricultural
_	] e. Biosolids
-	] f. Wood
-	g. Manure
[	] h. Animal
[	] i. Food waste
[	] j. Municipal Solid Waste (MSW)
[	] k. Putrid Feedstock (stored too long, rotting and decaying)
[	] l. Contaminated Feedstock (feedstock w/ unwanted materials, like leaves w/ food waste)
[	] m. Other (explain) the feedstock that creates the most odors is mainly:
ĺ	n. No feedstock creates odor problems in the jurisdiction
Ī	o. I do not know if any feedstock type is creating odor problems in the jurisdiction

### **PART B: ODOR MANAGEMENT** (questions 6 –9):

This section is designed to get your opinion on which operational controls are effective in controlling odors. We would like to get information on the effectiveness or ineffectiveness of odor controls in use or that have been used in your jurisdiction. The next section, Part C, requests information about odor detection/monitoring programs.

6. To the best of your knowledge, which are all the odor management controls
currently used by operators in your jurisdiction? (Please check all the odor
management controls currently in use or seasonally used to reduce odors)
[ ] a. Reduce amount of time feedstock is stored
[ ] b. Manage C:N ratio
[ ] c. Manage pH
[ ] d. Manage moisture
<ul> <li>[ ] e. Refuse to accept loads of certain feedstock types , (examples: grass, putrid wastes, etc)</li> <li>[ ] f. Refuse to accept contaminated loads, (example: green material with food and plastic bags</li> <li>[ ] g. Process in an enclosed area</li> <li>[ ] h. Turn windrows at certain times of day</li> <li>[ ] i. Turn windrows when wind is away from surrounding populations</li> <li>[ ] j. Use biofilters</li> <li>[ ] k. Use odor masking agents</li> </ul>
[ ] 1. Use odor neutralizing agents
[ ] m. Use public outreach programs to educate neighbors about your operation
[ ] n. Other odor control ( <i>explain</i> ) The following methods to control odors are:
[ ] in other oder control (explaint) The following methods to control oders are:
[ ] o. Other odor complaint control (explain) The following methods to reduce odor complaints are:
<ul> <li>odors? Please check all the ones you have seen used and rate the effectiveness of each one in reducing odors and/or odor complaints? (rate each one, "most effective" to "doesn't work"):</li> <li>[ ] a. Reducing the amount of time feedstock is stored, to control odors is:         <ul> <li>( ) most effective ( ) very effective ( ) effective ( ) not very effective ( ) doesn't work</li> <li>( ) no opinion</li> </ul> </li> </ul>
[ ] b. Managing C:N ratio, to control odors is:    ( ) most effective ( ) very effective ( ) effective ( ) not very effective ( ) doesn't work    ( ) no opinion
[ ] c. Managing pH, to control odors is:     ( ) most effective ( ) very effective ( ) effective ( ) not very effective ( ) doesn't work     ( ) no opinion
[ ] d. Managing moisture, to control odors is:     ( ) most effective ( ) very effective ( ) effective ( ) not very effective ( ) doesn't work     ( ) no opinion
7. (continued) Which odor controls have been used (past and present) and how effectively did they control odors? Please check all the ones you have seen used and rate the effectiveness of each one in reducing odors and/or odor complaints? (rate each one, "most effective" to "doesn't work"):
<ul> <li>[ ] e. Refusing to accept loads of certain odiferous feedstock types, to control odors is:         (examples: grass, putrid wastes, etc)</li> <li>( ) most effective ( ) very effective ( ) effective ( ) not very effective ( ) doesn't work</li> <li>( ) no opinion</li> </ul>

(example: green material with food and plastic bags)
( ) most effective ( ) very effective ( ) effective ( ) not very effective ( ) doesn't work ( ) no opinion
[ ] g. Processing in an enclosed area to control odors is:
( ) most effective ( ) very effective ( ) effective ( ) not very effective ( ) doesn't work ( ) no opinion
[ ] h. Turning windrows at certain times of day to control odors is:
( ) most effective ( ) very effective ( ) effective ( ) not very effective ( ) doesn't work ( ) no opinion
[ ] i. Turning windrows when wind is away from surrounding populations to control odors is:
( ) most effective ( ) very effective ( ) effective ( ) not very effective ( ) doesn't work ( ) no opinion
[ ] j. Using biofilters to control odors is:
( ) most effective ( ) very effective ( ) effective ( ) not very effective ( ) doesn't work ( ) no opinion
[ ] k. Using odor masking agents to control odors is:
( ) most effective ( ) very effective ( ) effective ( ) not very effective ( ) doesn't work ( ) no opinion
[ ] l. Using odor neutralizing agents to control odors is:
( ) most effective ( ) very effective ( ) effective ( ) not very effective ( ) doesn't work ( ) no opinion
[ ] m. Odor complaints: using public outreach programs to reduce odor complaints is:
( ) most effective ( ) very effective ( ) effective ( ) not very effective ( ) doesn't work ( ) no opinion
n. Other odor control: (identify and rate)
( ) most effective ( ) very effective ( ) effective ( ) not very effective ( ) doesn't work ( ) no opinion
7. (continued) Which odor controls have been used (past and present) and how effectively did they control odors? Please check all the ones you have seen used and rate the effectiveness of each one in reducing odors and/or odor complaints? (rate each one, "most effective" to "doesn't work"):
[ ] <b>o. Odor complaint reduction, other:</b> (identify and rate)
( , 22-22-1 :: 3m ( , mo opinion
<ul> <li>8. Do any operators in your jurisdiction have written odor management procedures for any types of solid waste operations? (Check one)</li> <li>( ) a. Yes (I have seen a copy)</li> <li>( ) b. No (including probably not)</li> <li>( ) c. I don't know</li> </ul>

in California: (Check one)	
) a. Yes	
) b. No	
) c. I don't know	
PART C: ODOR DETECTION & MONITORING (Questions 10 – 13):	
The previous section asked about methods used for controlling odors. This section requests information on programs or equipment used to detect the presence of odors during odor investigations or routine odor monitoring, including the human nose.	
0. Which odor monitoring techniques or detection equipment do you most commonly use during odor investigations or routine odor monitoring?	
(Check one or list the type of equipment or program that you use)  ) a. The human nose	
) b. Other monitoring equipment (specify)	
) c. I do not monitor for odors	
) d. I don't know	
<ul> <li>1. Do any operators in your jurisdiction have written odor monitoring programs, including odor monitoring as part of the odor management plan? (Check one)</li> <li>) a. Yes (I have seen a copy)</li> <li>) b. No (including probably not)</li> <li>) c. I don't know</li> </ul>	
2. Do you think a standard monitoring tool, such as an odor panel, should be provided to	
investigate or monitor for odors from organic material handling sites? (Check one) ) a. Yes	
) b. No	
) c. I don't know	
3. Do you think odor monitoring at organic material handling sites should be a regulatory requirement in California? (Check one)  ) a. Yes ) b. No ) c. I don't know	
<b>PART D: ODOR COMPLAINTS</b> (questions 14 – 26):	

9. Do you think a written odor management plan should be a regulatory requirement

This section requests information on the number of odor events and the time of year the odor events occurred. We are asking about odor events rather than odor complaints since numerous complaints may be received for the same odor event. The number of odor complaints does not necessarily reflect the number of off-site odor occurrences, since many complaints may be received for one event and/or the odor and its source may not be verified. Additionally, complaints about odor may be related to siting problems, including other odor sources in the area rather than operational problems.

This section gathers information on odor events and when the event occurred. The information will help to understand more of the circumstances surrounding odor events.

<ul> <li>14. Have there been odor complaints about non-composting organic material handling operations/facilities in your jurisdiction, (example: chip &amp; grind, mulch)? (Check one)</li> <li>( ) a. Yes</li> <li>( ) b. No</li> <li>( ) c. I don't know</li> </ul>	
<ul> <li>15. Have there been odor complaints about <u>compost producing</u> organic material handling operations/facilities in your jurisdiction, excluding operations such as mushroom production? (Check one)</li> <li>( ) a. Yes</li> <li>( ) b. No</li> <li>( ) c. I don't know</li> </ul>	
<ul> <li>16. Have there been odor complaints about excluded composting organic material handling operations/facilities in your jurisdiction, such as mushroom production and other agricultural compost production? (Please check one)</li> <li>( ) a. Yes</li> <li>( ) b. No</li> <li>( ) c. I don't know</li> </ul>	
<ul> <li>17. Which agency do you think should investigate odor complaints about composting and simil organic material handling sites? (Check one)</li> <li>( ) a. LEA (the solid waste local enforcement agency that is certified by CIWMB)</li> <li>( ) b. ARB ( AQMD, APCD etc)</li> <li>( ) c. other:</li> <li>( ) d. I don't know</li> </ul>	la
<ul> <li>18.Do you have a complaint investigation protocol that you would send to CIWMB as part of the survey? (Check one)</li> <li>( ) a. Yes, I will mail CIWMB a copy of our complaint investigation protocol.</li> <li>( ) b. No</li> <li>( ) c. You may review the protocol in our EPP</li> </ul>	
19. In 1999, approximately how many odor events occurred? (An event is the number of days complaints about odors from organic material handling operations were received by your agency including those received from another enforcement agency) (Please check one)  ( ) a. 0 odor events ( ) b. 1-20 odor events ( ) c. 21- 50 odor events ( ) d. 51-100 odor events ( ) e. 101-500 odor events ( ) f. over 500 odor events ( ) g. I don't know	
<ul> <li>20. In 1999, which season(s) were most complaints received? (Please check as many as applicable)</li> <li>[ ] a. Fall (September, October, November)</li> <li>[ ] b. Winter (December, January, February)</li> </ul>	

[	] c. Spring (March, April, May)	
[	d. Summer (June, July, August)	
[	] e. Throughout the year, not just one season	
[	] f. Zero, no odor events occurred	
Ī	] g. I do not remember when most odor events occurred.	
2	1. What is the <u>required</u> buffer zone around organic material operations/facilities?	
	(Check one)	
(	) a. Under 100 ft	
(	) b. 100 ft 200 ft.	
(	) c. Over 200 ft, within 1000 ft	
(	) d. Over 1,000 ft.	
(	e. There are no required buffer zones.	
	) f. I do not know if buffer zones are required.	
`	•	
2	2. Did odor complaints begin or increase with additional housing developments?	
	(Check one)	
(	) a. Yes	
•	) b. No	
(	c. I don't know	
ì		
2	3. Have any facilities recently closed due to public opposition stemming from odor problem (Check one)	ıs?
(	) a. Yes	
	) b. No	
,	c. I don't know	
`	, et 2 doi: 0 lino !!	
2	4. What are the other odor sources in your area that may be the cause of the	\
	complaints? (Check as many as applicable)	
ſ	] a. Chicken farms (egg or meat production)	
	] b. Dumpsters or a waste transfer station	
	c. Landfill	\$
_	d. Dairy	
Ī	e. Ranch	
-	] f. Sewage treatment plant	
	g. Industrial – processing plants	
	] h. Other	
_	i. There are no other odor sources	
-	j. I don't know if there are other odor sources	
-		
2	5. In your opinion, in the past few years, has your surrounding community become <i>more</i>	
	accepting of composting operations, or has the public become less accepting of composting	g
	operations? (Check one)	
(	) a. Much more accepting	
	) b. More accepting	
	) c. Same, just as accepting	
	) d. Less accepting	
	e. Much less accepting	
`	) f. I don't know	

	your opinion, which of the following would be useful in solving odor problems?
,	ease check as many as applicable)  More effective odor control tools (equipment, chemicals etc)
	Odor detection equipment that is more effective and reasonably priced
	Operators have to be trained and certified
	Providing guidance to operators on effective odor control for operations
[ ] e.	New and stricter regulations such as mandated odor amounts that cannot be exceeded
	Stricter enforcement of current standards
	More public relations to increase public acceptance of organic materials and odors
[ ] h.	Other: (explain)To solve odor problems, the following should be done:
	Γ E: ODORS and ILLNESSES (questions 27-34):
Althou odors concer inform odors asperg allergi system a grow	reghthere is no confirmed relationship between negative health effects and from composting and other organic material handling operations, there is in in some communities. The purpose of this section is to gather some initial ration on illnesses associated with exposure to odors. Concerns have been expressed that indicate the presence of aspergillus. There is no confirmed relationship between odors and illus exposure. There may be individuals that are sensitive to dust, increasing the risk of es. Aspergillus exposure may negatively effect individuals with compromised immune is. The questions in Part E regarding health are to further assist in determining if there is ring concern about possible negative health effects and odors from composting and other comaterial handling operations.
Althou odors : concer inform odors : asperg allergi system a grow organi 27. Ha	igh there is no confirmed relationship between negative health effects and from composting and other organic material handling operations, there is in in some communities. The purpose of this section is to gather some initial nation on illnesses associated with exposure to odors. Concerns have been expressed that indicate the presence of aspergillus. There is no confirmed relationship between odors and illus exposure. There may be individuals that are sensitive to dust, increasing the risk of es. Aspergillus exposure may negatively effect individuals with compromised immune is. The questions in Part E regarding health are to further assist in determining if there is fing concern about possible negative health effects and odors from composting and other
Althouodors concer inform odors asperg allergi system a grow organi 27. Haas (C) ( ) a.	igh there is no confirmed relationship between negative health effects and from composting and other organic material handling operations, there is in in some communities. The purpose of this section is to gather some initial nation on illnesses associated with exposure to odors. Concerns have been expressed that indicate the presence of aspergillus. There is no confirmed relationship between odors and illus exposure. There may be individuals that are sensitive to dust, increasing the risk of es. Aspergillus exposure may negatively effect individuals with compromised immune is. The questions in Part E regarding health are to further assist in determining if there is ring concern about possible negative health effects and odors from composting and other c material handling operations.  Ave you or other inspection staff in the jurisdiction experienced any symptoms/illnesses sociated with on-site exposure to odors or processing at organic material handling sites? These one)
Althouodors: concer inform odors: asperg allergi system a grow organi 27. Haas (C) ( ) a. ( ) b.	Igh there is no confirmed relationship between negative health effects and from composting and other organic material handling operations, there is in in some communities. The purpose of this section is to gather some initial nation on illnesses associated with exposure to odors. Concerns have been expressed that indicate the presence of aspergillus. There is no confirmed relationship between odors and illus exposure. There may be individuals that are sensitive to dust, increasing the risk of es. Aspergillus exposure may negatively effect individuals with compromised immune is. The questions in Part E regarding health are to further assist in determining if there is ring concern about possible negative health effects and odors from composting and other comaterial handling operations.  Ave you or other inspection staff in the jurisdiction experienced any symptoms/illnesses sociated with on-site exposure to odors or processing at organic material handling sites? The heck one)  Yes
Althouodors: concer inform odors: asperg allergi system a grow organi 27. Haas (C) ( ) a. ( ) b.	igh there is no confirmed relationship between negative health effects and from composting and other organic material handling operations, there is in in some communities. The purpose of this section is to gather some initial nation on illnesses associated with exposure to odors. Concerns have been expressed that indicate the presence of aspergillus. There is no confirmed relationship between odors and illus exposure. There may be individuals that are sensitive to dust, increasing the risk of es. Aspergillus exposure may negatively effect individuals with compromised immune is. The questions in Part E regarding health are to further assist in determining if there is ring concern about possible negative health effects and odors from composting and other c material handling operations.  Ave you or other inspection staff in the jurisdiction experienced any symptoms/illnesses sociated with on-site exposure to odors or processing at organic material handling sites? These one)
Althouodors concer inform odors asperg allergi system a grow organi  27. Haas (C) ( ) a. ( ) b. ( ) c. ( ) c. ( ) c.	igh there is no confirmed relationship between negative health effects and from composting and other organic material handling operations, there is in in some communities. The purpose of this section is to gather some initial nation on illnesses associated with exposure to odors. Concerns have been expressed that indicate the presence of aspergillus. There is no confirmed relationship between odors and illus exposure. There may be individuals that are sensitive to dust, increasing the risk of es. Aspergillus exposure may negatively effect individuals with compromised immune is. The questions in Part E regarding health are to further assist in determining if there is ring concern about possible negative health effects and odors from composting and other comaterial handling operations.  Ave you or other inspection staff in the jurisdiction experienced any symptoms/illnesses sociated with on-site exposure to odors or processing at organic material handling sites?  About the don't know  A you know of any persons, staff or employees of any handling operations in the isdiction who have experienced lung type illness or symptoms related to exposure to odors
Althouodors concer inform odors asperg allergi system a grow organi  27. Haas (C) ( ) a. ( ) b. ( ) c. ( ) c. ( ) c.	igh there is no confirmed relationship between negative health effects and from composting and other organic material handling operations, there is in in some communities. The purpose of this section is to gather some initial lation on illnesses associated with exposure to odors. Concerns have been expressed that indicate the presence of aspergillus. There is no confirmed relationship between odors and illus exposure. There may be individuals that are sensitive to dust, increasing the risk of es. Aspergillus exposure may negatively effect individuals with compromised immune is. The questions in Part E regarding health are to further assist in determining if there is ring concern about possible negative health effects and odors from composting and other comaterial handling operations.  Ave you or other inspection staff in the jurisdiction experienced any symptoms/illnesses sociated with on-site exposure to odors or processing at organic material handling sites? The don't know  I don't know  I don't know of any persons, staff or employees of any handling operations in the isdiction who have experienced lung type illness or symptoms related to exposure to odors processing at organic material processing sites? (Please check one)
Althouodors concer inform odors asperg allergi system a grow organi  27. Haas (C) ( ) a. ( ) b. ( ) c. ( ) c. ( ) a.	igh there is no confirmed relationship between negative health effects and from composting and other organic material handling operations, there is in in some communities. The purpose of this section is to gather some initial nation on illnesses associated with exposure to odors. Concerns have been expressed that indicate the presence of aspergillus. There is no confirmed relationship between odors and illus exposure. There may be individuals that are sensitive to dust, increasing the risk of es. Aspergillus exposure may negatively effect individuals with compromised immune is. The questions in Part E regarding health are to further assist in determining if there is ring concern about possible negative health effects and odors from composting and other is material handling operations.  Ave you or other inspection staff in the jurisdiction experienced any symptoms/illnesses sociated with on-site exposure to odors or processing at organic material handling sites? The don't know  O you know of any persons, staff or employees of any handling operations in the isdiction who have experienced lung type illness or symptoms related to exposure to odors processing at organic material processing sites? (Please check one)
Althouodors: concer inform odors: asperg allergi system a grow organi  27. Haas (C) a. () b. () c. 28. Do jur or () a. () b. () b.	igh there is no confirmed relationship between negative health effects and from composting and other organic material handling operations, there is in in some communities. The purpose of this section is to gather some initial nation on illnesses associated with exposure to odors. Concerns have been expressed that indicate the presence of aspergillus. There is no confirmed relationship between odors and illus exposure. There may be individuals that are sensitive to dust, increasing the risk of es. Aspergillus exposure may negatively effect individuals with compromised immune is. The questions in Part E regarding health are to further assist in determining if there is ring concern about possible negative health effects and odors from composting and other is material handling operations.  Ave you or other inspection staff in the jurisdiction experienced any symptoms/illnesses sociated with on-site exposure to odors or processing at organic material handling sites? The don't know  O you know of any persons, staff or employees of any handling operations in the isdiction who have experienced lung type illness or symptoms related to exposure to odors processing at organic material processing sites? (Please check one)

23. In the last year, during routine inspections of investigations, now many employees
at an organic material handling site(s) mentioned that they experienced
symptoms/illnesses associated with on-site exposure to odors or processing at
organic material handling sites? (Check one)
( ) a. 0, Not one employee at organic material processing site(s)
( ) b. 1-10 employees at organic material processing site(s)
( ) c. 11- 50 employees at organic material processing site(s)
( ) d. 51-100 employees at organic material processing site(s)
( ) e. over 100 employees at organic material processing site(s)
( ) f. I don't know
<ul> <li>30. In the last year, how many persons in the community complained that they have experienced symptoms/illnesses associated with exposure to odors or processing at organic material handling sites? (Please check one)</li> <li>( ) a. 0 persons</li> </ul>
( ) b. 1-10 persons
( ) c. 11- 50 persons
( ) d. 51-100 persons
( ) e. over 100 persons
( ) f. I don't know
31. Did anyone seek medical attention for illness or symptoms related to exposure to odors or processing at organic material processing sites? (Please check one)  ( ) a. Yes ( ) b. No
( ) c. I don't know
( ) C. I don't know
<ul> <li>32. If you answered yes to question 29, did you receive a copy of the medical report(s)? (Please check one)</li> <li>( ) a. Yes</li> <li>( ) b. No</li> <li>( ) c. I don't know</li> </ul>
33. For the most recent incident(s), check all that apply in the description of any
illnesses/symptoms you or other persons said they felt. (Please check as many as applicable)
[ ] a. Nausea
[ ] b. Vomiting
[ ] c. Headache
[ ] d. Sore throat
[ ] e. Cough
[ ] f. Eye irritation
[ ] g. Irritated sinuses
[ ] h. Other symptom described by the effected person
[ ] i. I do not know what the symptoms were
[ ] j There haven't been any illnesses
34. Please include any additional information regarding odor from compost/mulch
operations that may be beneficial to odor management in California:

Your responses will remain confidential. The survey information is being compiled by California Polytechnic State University San Luis Obispo for the California Integrated Waste Management Board. The compiled survey results will be posted on the California Polytechnic State University San Luis Obispo webpage, at URL <a href="http://ceenve.calpoly.edu/cotabioaero/odormgmtsurLEA0219.html">http://ceenve.calpoly.edu/cotabioaero/odormgmtsurLEA0219.html</a> additionally, compiled survey results will be posted on the California Integrated Waste Management Board's website at URL <a href="http://www/ciwmb/ca.gov">http://www/ciwmb/ca.gov</a>

#### To mail the survey:

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Questions or comments? Call Rachel Morton, Odor Survey Project Manager for CIWMB at (714) 449-7079. Thank you for your participation.